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1   Efficient management for large-scale flash-memory storage systems with resource conservation
Li-Pin Chang, Tei-Wei Kuo
November 2005   **Transactions on Storage (TOS)** , Volume 1 Issue 4
Publisher: ACM
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Many existing approaches on flash-memory management are based on RAM-resident tables in which one single granularity size is used for both address translation and space management. As high-capacity flash memory is becoming more affordable than ever, ...

Keywords: Flash memory, consumer electronics, embedded systems, memory management, portable devices, storage systems

2   Automated reduction of the memory footprint of the Linux kernel
Dominique Chanet, Bjorn De Sutter, Bruno De Bus, Ludo Van Put, Koen De Bosschere
September 2007   **Transactions on Embedded Computing Systems (TECS)** , Volume 6 Issue 4
Publisher: ACM
Full text available: 📄 Pdf (1.43 MB)   Additional Information: full citation, abstract, references, index terms

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The limited built-in configurability of Linux can lead to expensive code size overhead when it is used in the embedded market. To overcome this problem, we propose the application of link-time compaction and specialization techniques that exploit the ...

Keywords: Linux kernel, compaction, compression, operating system, specialization, system calls

3 Algorithms and data structures for flash memories

Eran Gal, Sivan Toledo

June 2005 **Computing Surveys (CSUR)** , Volume 37 Issue 2
Publisher: ACM

Full text available: Pdf (343.39 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 101, Downloads (12 Months): 832, Citation Count: 23

Flash memory is a type of electrically-erasable programmable read-only memory (EEPROM). Because flash memories are nonvolatile and relatively dense, they are now used to store files and other persistent objects in handheld computers, mobile phones, digital ...

Keywords: EEPROM memory, Flash memory, wear leveling

4 Exterminator: Automatically correcting memory errors with high probability

Gene Novark, Emery D. Berger, Benjamin G. Zorn

December 2008 **Communications of the ACM** , Volume 51 Issue 12
Publisher: ACM

Additional Information: full citation, appendices and supplements, abstract, references, index terms

Full text available: Digital Edition, Html (869.00 bytes), Pdf (840.78 KB)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 172, Citation Count: 0

Programs written in C and C++ are susceptible to memory errors, including buffer overflows and dangling pointers. These errors, which can lead to crashes, erroneous execution, and security vulnerabilities, are notoriously costly to repair. Tracking down ...